

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 December 2000 (28.12.2000)

PCT

(10) International Publication Number
WO 00/79243 A1

(51) International Patent Classification⁷: G01N 19/10,
25/00, 27/00, 27/16, 15/07, 29/00, B32B 5/00, G06F
13/14, 17/00, 11/00

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(21) International Application Number: PCT/US00/16738

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(22) International Filing Date: 16 June 2000 (16.06.2000)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE,
DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(25) Filing Language: English

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

Published:

(30) Priority Data:
60/139,842 17 June 1999 (17.06.1999) US
09/518,179 2 March 2000 (02.03.2000) US

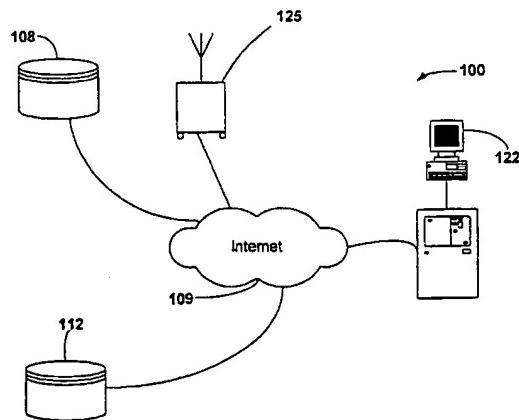
— With international search report.

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[Continued on next page]

(54) Title: MULTIPLE SENSING SYSTEM AND DEVICE



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(57) Abstract: The present invention provides a distributed sensing system in a networked environment for identifying (ID) an analyte of interest, including a first sensor array (fixed at 108, or mobile at 125) connected to the network comprising sensors capable of producing a first response in the presence of a chemical stimulus; a second sensor array (fixed at 112) connected to the network comprising sensors capable of producing a second response in the presence of a physical stimulus; and a local or remote computer (122) comprising a resident algorithm with data processing, data comparison, and judgement making capability. The algorithm indicates or selects the most relevant sensor in the network to identify the analyte. The sensors in the two arrays can be separated over large spatial areas, wherein the sensor arrays are networked together across the environment being monitored for analyte presence and ID. Suitable networks include a computer local area network (LAN), an intranet or the Internet (www) (122).